Serial No. 10/565,809

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Reply to Office Action of October 7, 2008

## **ABSTRACT**

There is disclosed a green phosphor that is adaptive for improving its driving voltage and brightness characteristic, and at the same time, improving its color purity. A green phosphor according to an embodiment of the present invention includes a mixed phosphor composed of a first class phosphor of Zn<sub>2</sub>SiO<sub>4</sub>:Mn, a second class phosphor of at least one of LaPO<sub>4</sub>:Tb, Y<sub>3</sub>Al<sub>3</sub>(BO<sub>3</sub>)<sub>4</sub>Tb, Y(Al, Ga)5012:Tb, YBO<sub>3</sub>:Tb, (Y, Gd)BO<sub>3</sub>:Tb, and a third class phosphor of at least one of BaAl<sub>12</sub>O<sub>19</sub>:Mn, BaAl<sub>14</sub>O<sub>23</sub>:Mn, Ba(Sr, Ma)AlO:Mn, and the mixing rate of the third class phosphor to the total weight of the mixed phosphor is 1~25 wt %.